

## WEST Search History

DATE: Monday, May 01, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L4	(cancer or neovasculariz\$5 or prolif\$5) same L3	3
<input type="checkbox"/>	L3	(gene or sequence or polynucleotide) same L2	68
<input type="checkbox"/>	L2	(N-acetylglucosamine or acetylglucosamine)same L1	286
<input type="checkbox"/>	L1	((N-acetylglucosaminyltransferase near2 V)or (acetylglucosaminyltransferase near2 V)or acetylglucosaminyltransferase)	801

END OF SEARCH HISTORY

=> index bioscience medicine

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 14:03:32 ON 01 MAY 2006

71 FILES IN THE FILE LIST IN STNINDEX

=> s ((N-acetylglucosaminyltransferase(w)V) or (acetylglucosaminyltransferase(w)V or acetylglucosaminyltransferase or gnt-V)

1 FILE ADISCTI  
1 FILE ADISINSIGHT  
50 FILE AGRICOLA  
10 FILE ANABSTR  
3 FILE AQUASCI  
49 FILE BIOENG  
1088 FILE BIOSIS  
126 FILE BIOTECHABS  
126 FILE BIOTECHDS  
576 FILE BIOTECHNO  
80 FILE CABA  
1620 FILE CAPLUS  
16 FILE CEABA-VTB  
12 FILE CONFSCI  
8 FILE DDFB  
11 FILE DDFU  
1029 FILE DGENE  
52 FILE DISSABS  
8 FILE DRUGB  
13 FILE DRUGU  
7 FILE EMBAL  
1008 FILE EMBASE  
500 FILE ESBIOBASE  
30 FILES SEARCHED...  
4 FILE FROSTI  
5 FILE FSTA  
1948 FILE GENBANK  
131 FILE IFIPAT  
3 FILE IMSDRUGNEWS  
1 FILE IMSRESEARCH  
138 FILE JICST-EPLUS  
241 FILE LIFESCI  
1031 FILE MEDLINE  
345 FILE PASCAL  
3 FILE PHAR  
11 FILE PROMT  
54 FILES SEARCHED...  
1122 FILE SCISEARCH  
449 FILE TOXCENTER  
708 FILE USPATFULL  
61 FILE USPAT2  
1 FILE VETU  
90 FILE WPIDS  
1 FILE WPIFV  
90 FILE WPINDEX  
2 FILE IPA  
6 FILE NLDB

45 FILES HAVE ONE OR MORE ANSWERS, 71 FILES SEARCHED IN STNINDEX

L1 QUE ((N-ACETYLGLUCOSAMINYLTRANSFERASE(W) V) OR (ACETYLGLUCOSAMINYLTRANSFERASE(W) V) OR ACETYLGLUCOSAMINYLTRANSFERASE OR GNT-V)

=> d rank

F1 1948 GENBANK  
F2 1620 CAPLUS  
F3 1122 SCISEARCH

F4	1088	BIOSIS
F5	1031	MEDLINE
F6	1029	DGENE
F7	1008	EMBASE
F8	708	USPATFULL
F9	576	BIOTECHNO
F10	500	ESBIOBASE
F11	449	TOXCENTER
F12	345	PASCAL
F13	241	LIFESCI
F14	138	JICST-EPLUS
F15	131	IFIPAT
F16	126	BIOTECHABS
F17	126	BIOTECHDS
F18	90	WPIDS
F19	90	WPINDEX
F20	80	CABA
F21	61	USPAT2
F22	52	DISSABS
F23	50	AGRICOLA
F24	49	BIOENG
F25	16	CEABA-VTB

=> file f2-f5, f7-f11, f13

FILE 'CAPLUS' ENTERED AT 14:06:58 ON 01 MAY 2006  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE 'USPATFULL' ENTERED AT 14:06:58 ON 01 MAY 2006  
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FILE 'LIFESCI' ENTERED AT 14:06:58 ON 01 MAY 2006  
 COPYRIGHT (C) 2006 Cambridge Scientific Abstracts (CSA)

=> s L1  
 L2 8343 L1

=> s (N-acetylglucosamine or acetylglucosamine)(s)L2  
 L3 1386 (N-ACETYLGLUCOSAMINE OR ACETYLGLUCOSAMINE)(S) L2

=> s (gene or sequence or polynucleotide) (s)L3  
 8 FILES SEARCHED...  
 L4 256 (GENE OR SEQUENCE OR POLYNUCLEOTIDE) (S) L3

=> S (cancer or neoplas? or neovasculariz? or prolifer?)(s)L4  
 L5 22 (CANCER OR NEOPLAS? OR NEOVASCULARIZ? OR PROLIF?)(S) L4

=> dup rem L5  
PROCESSING COMPLETED FOR L5  
L6 15 DUP REM L5 (7 DUPLICATES REMOVED)

=> d ibib abs L6 1-15

L6 ANSWER 1 OF 15 USPATFULL on STN  
ACCESSION NUMBER: 2006:34230 USPATFULL  
TITLE: Useful polypeptides  
INVENTOR(S): Sasaki, Katsutoshi, Sagamihara-shi, JAPAN  
Shiraishi, Norihiko, Tokyo, JAPAN  
Natsume, Ayumi, Tokyo, JAPAN  
Yamada, Yoji, Tokyo, JAPAN  
Nakagawa, Satoshi, Tokyo, JAPAN  
Sekine, Susume, Yokohama-shi, JAPAN  
PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Chiyoda-ku, JAPAN  
(non-U.S. corporation)

NUMBER KIND DATE

-----  
PATENT INFORMATION: US 2006030001 A1 20060209  
APPLICATION INFO.: US 2005-148280 A1 20050609 (11)  
RELATED APPLN. INFO.: Division of Ser. No. US 2001-19735, filed on 28 Dec  
2001, PENDING A 371 of International Ser. No. WO  
2000-JP4304, filed on 29 Jun 2000

NUMBER DATE

-----  
PRIORITY INFORMATION: JP 1999-183437 19990629  
JP 2000-74757 20000316  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: FITZPATRICK CELLA HARPER & SCINTO, 30 ROCKEFELLER  
PLAZA, NEW YORK, NY, 10112, US  
NUMBER OF CLAIMS: 10  
EXEMPLARY CLAIM: 1-33  
NUMBER OF DRAWINGS: 22 Drawing Page(s)  
LINE COUNT: 5101

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a novel polypeptide having a  
.beta.1,3-N-acetylglucosaminyltransferase activity; a method for  
producing the polypeptide; a DNA which encodes the polypeptide; a  
recombinant vector into which the DNA is inserted; a transformant  
comprising the recombinant vector; a method for producing a sugar chain  
or complex carbohydrate, using the polypeptide; a method for producing a  
sugar chain or complex carbohydrate, using the transformant; an antibody  
which recognizes the polypeptide; a method for screening a substance  
which changes the expression of the gene which encodes the polypeptide;  
and a method for screening a substance which changes the activity of the  
polypeptide.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2006:112728 CAPLUS  
DOCUMENT NUMBER: 144:309464  
TITLE: Aberrant expression of N-acetylglucosaminyltransferase-  
IVa and IVb (GnT-IVa and b) in pancreatic cancer  
AUTHOR(S): Ide, Yoshihito; Miyoshi, Eiji; Nakagawa, Tsutomu; Gu,  
Jianguo; Tanemura, Masahiro; Nishida, Toshiro; Ito,  
Toshinori; Yamamoto, Harumi; Kozutsumi, Yasunori;  
Taniguchi, Naoyuki  
CORPORATE SOURCE: Department of Biochemistry, Osaka University Graduate  
School of Medicine, Suita, Osaka, 565-0871, Japan  
SOURCE: Biochemical and Biophysical Research Communications  
(2006), 341(2), 478-482  
CODEN: BBRC A9; ISSN: 0006-291X  
PUBLISHER: Elsevier  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The goal of this study was to identify glycosyltransferases that are specifically expressed in pancreatic cancer. To investigate the gene expression of glycosyltransferases between pancreatic cancer and normal pancreatic tissues, we performed DNA-microarray (involving about 1000 oligosaccharide-related genes) using RNA mixts. of pancreatic cancer cells and normal pancreatic tissues. Eighty-six genes were up-regulated and thirty-two were down-regulated in pancreatic cancer, compared to normal pancreatic tissue. Among these changes, it is noteworthy that the expression of GnT-IVa was decreased and the expression of GnT-IVb was increased in pancreatic cancer, compared to normal pancreatic tissues. Although GnT-IVa and -IVb are involved in the same reaction as a glycosyltransferase, their chromosomal localization is different. When 5 cases of pancreatic cancer tissues were examd. using the real-time RT-PCR method, the expression of GnT-IVb was dominant in tumor tissues and the expression of GnT-IVa was dominant in the surrounding normal tissues. The expression of GnT-IVa was increased in all 3 cell lines that had been treated with 5-aza-C and butyrate. These results suggest that the down-regulation of GnT-IVa in pancreatic cancer cells is due to an epigenetic abnormality in the gene.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2005:240500 USPATFULL

TITLE: Signatures of ER status in breast cancer

INVENTOR(S): Erlander, Mark G., Encinitas, CA, UNITED STATES  
Ma, Xiao-Jun, San Diego, CA, UNITED STATES  
Wang, Wei, San Marcos, CA, UNITED STATES  
Witliff, James L., Louisville, KY, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2005208500 A1 20050922  
APPLICATION INFO.: US 2004-794263 A1 20040304 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2003-451942P 20030304 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834, US

NUMBER OF CLAIMS: 21

EXEMPLARY CLAIM: 1

LINE COUNT: 8789

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the identification and use of gene expression profiles, or patterns, suitable for identification of populations that are positive and negative for estrogen receptor expression. The gene expression profiles may be embodied in nucleic acid expression, protein expression, or other expression formats, and may be used in the study and/or diagnosis of cells and tissue in breast cancer as well as for the study and/or determination of prognosis of a patient, including breast cancer survival.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2005:208957 USPATFULL

TITLE: UDP-galactose: beta-N acetyl-glucosamine beta-1, 4-galactosyltransferase, beta4 Gal-T2

INVENTOR(S): Clausen, Henrik, Holte, DENMARK  
Bennett, Eric Paul, Lyngby, DENMARK

PATENT ASSIGNEE(S): GlycoZym ApS, Hoersholm, DENMARK (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005181437 A1 20050818  
APPLICATION INFO.: US 2005-105796 A1 20050413 (11)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 2002-132652, filed on 24

Apr 2002, PENDING Continuation of Ser. No. US  
1998-118464, filed on 17 Jul 1998, GRANTED, Pat. No. US  
6558934

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: DARBY & DARBY P.C., P. O. BOX 5257, NEW YORK, NY,  
10150-5257, US  
NUMBER OF CLAIMS: 8  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 9 Drawing Page(s)  
LINE COUNT: 1522

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel gene defining a novel enzyme in the UDP-D-galactose:  
b-N-acetyl-glucosamine .beta.-1,4-galactosyltransferase family, termed  
.beta.4Gal-T2, with unique enzymatic properties is disclosed. The  
enzymatic activity of .beta.4Gal-T2 is shown to be distinct from that of  
previously identified enzymes of this gene family. The invention  
discloses isolated DNA molecules and DNA constructs encoding  
.beta.4Gal-T2 and derivatives thereof by way of amino acid deletion,  
substitution or insertion exhibiting .beta.4Gal-T2 activity, as well as  
cloning and expression vectors including such DNA, cells transfected  
with the vectors, and recombinant methods for providing .beta.4Gal-T2.  
The enzyme .beta.4Gal-T2 and .beta.4Gal-T2-active derivatives thereof  
are disclosed, in particular soluble derivatives comprising the  
catalytically active domain of .beta.4Gal-T2. Further, the invention  
discloses methods of obtaining .beta.-1,4-galactosyl glycosylated  
saccharides, glycopeptides or glycoproteins by use of an enzymically  
active .beta.4Gal-T2 protein or fusion protein thereof or by using cells  
stably transfected with a vector including DNA encoding an enzymatically  
active .beta.4Gal-T2 protein as an expression system for recombinant  
production of such glycopeptides or glycoproteins. Also a method for the  
identification of DNA sequence variations in the .beta.4Gal-T2 gene by  
isolating DNA from a patient, amplifying .beta.4Gal-T2-coding exons by  
PCR, and detecting the presence of DNA sequence variation, are  
disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 15 USPATFULL on STN  
ACCESSION NUMBER: 2005:171767 USPATFULL  
TITLE: Sugar transferase gnt-v having angiogenic effect  
INVENTOR(S): Taniguchi, Naoyuki, Toyonaka-shi, Osaka, JAPAN  
Miyoshi, Eiji, Toyonaka-shi, Osaka, JAPAN  
Saito, Takashi, Wako-shi Saitama, JAPAN  
PATENT ASSIGNEE(S): Suntory limited, Osaka, JAPAN, 530-8203 (non-U.S.  
corporation)

NUMBER KIND DATE

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PATENT INFORMATION: US 2005148516 A1 20050707  
APPLICATION INFO.: US 2003-500841 A1 20021227 (10)  
WO 2002-JP13879 20021227

NUMBER DATE

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PRIORITY INFORMATION: JP 2002-2056 20020109  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: BURNS DOANE SWECKER & MATHIS L L P, POST OFFICE BOX  
1404, ALEXANDRIA, VA, 22313-1404, US  
NUMBER OF CLAIMS: 22  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 7 Drawing Page(s)  
LINE COUNT: 1601

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a peptide or protein having a  
neovascularization action and containing a basic amino acid cluster  
region of .beta.1,6-N-acetylglucosaminyltransferase, a  
neovascularization accelerator containing the above-mentioned peptide or  
protein, a method of screening an inhibition substance for the

above-mentioned peptide or protein, and a neovascularization inhibitor containing this inhibition substance.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2005:131230 USPATFULL

TITLE: Marker for measuring liver cirrhosis

INVENTOR(S): Callewaert, Nico L.M., Lichtervelde, BELGIUM  
Contreras, Roland H., Merelbeke, BELGIUM

NUMBER KIND DATE

PATENT INFORMATION: US 2005112691 A1 20050526

APPLICATION INFO.: US 2004-968579 A1 20041018 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. WO 2003-EP4041, filed on 16  
Apr 2003, UNKNOWN

NUMBER DATE

PRIORITY INFORMATION: EP 2002-76501 20020416

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: TRASK BRITT, P.O. BOX 2550, SALT LAKE CITY, UT, 84110,  
US

NUMBER OF CLAIMS: 20

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 9 Drawing Page(s)

LINE COUNT: 2072

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and kits to detect liver cirrhosis in mammals. The diagnostic test is based on the profiling and identification of diagnostic carbohydrates present in a body fluid such as blood serum.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2005:125198 USPATFULL

TITLE: Receptors and membrane-associated proteins

INVENTOR(S): Duggan, Brendan M., Sunnyvale, CA, UNITED STATES

Yang, Junming, San Jose, CA, UNITED STATES

Gietzen, Kimberly J., San Jose, CA, UNITED STATES

Lee, Soo Yeun, Mountain View, CA, UNITED STATES

Tang, Y. Tom, San Jose, CA, UNITED STATES

Azimzai, Yalda, Oakland, CA, UNITED STATES

Chawla, Narinder K., Union City, CA, UNITED STATES

Warren, Bridget A., San Marcos, CA, UNITED STATES

Barroso, Ines, Cambridge, UNITED KINGDOM

Becha, Shanya D., San Francisco, CA, UNITED STATES

Yue, Henry, Sunnyvale, CA, UNITED STATES

Lehr-Mason, Patricia M., Morgan Hill, CA, UNITED STATES

Thangavelu, Kavitha, Sunnyvale, CA, UNITED STATES

Lee, Sally, San Jose, CA, UNITED STATES

Emerling, Brooke M., Chicago, IL, UNITED STATES

Kable, Amy E., Silver Spring, MD, UNITED STATES

Khare, Reena, Saratoga, CA, UNITED STATES

Baughn, Mariah R., Los Angeles, CA, UNITED STATES

Gandhi, Ameena R., San Francisco, CA, UNITED STATES

Tran, Uyen K., San Jose, CA, UNITED STATES

Richardson, Thomas W., Redwood City, CA, UNITED STATES

Marquis, Joseph P., San Jose, CA, UNITED STATES

Lal, Preeti G., Santa Clara, CA, UNITED STATES

Forsythe, Ian J., Edmonton, CANADA

Lee, Ernestine A., Kensington, CA, UNITED STATES

Swarnakar, Anita, San Francisco, CA, UNITED STATES

Kallick, Deborah A., Galveston, TX, UNITED STATES

Griffin, Jennifer A., Fremont, CA, UNITED STATES

Elliott, Vicki S., San Jose, CA, UNITED STATES

Gorvad, Ann E., Bellingham, WA, UNITED STATES

Hafalia, April J. A., Daly City, CA, UNITED STATES  
Ison, Craig H., San Jose, CA, UNITED STATES  
Jin, Pei, Palo Alto, CA, UNITED STATES  
Jiang, Xin, Saratoga, CA, UNITED STATES  
Jackson, Alan A., Los Gatos, CA, UNITED STATES  
Bhatia, Umesh G., San Jose, CA, UNITED STATES  
Burrill, John D., Redwood City, CA, UNITED STATES  
Blake, Julie J., San Francisco, CA, UNITED STATES  
Ho, Anne, Sunnyvale, CA, UNITED STATES  
Zheng, Wenjin, San Diego, CA, UNITED STATES  
Gao, Jing, Santa Clara, CA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: US 2005107588 AI 20050519  
APPLICATION INFO.: US 2003-495148 AI 20021113 (10)  
WO 2002-US36759 20021113

NUMBER DATE

PRIORITY INFORMATION: US 2001-333097P 20011113 (60)  
US 2003-335274P 20011115 (60)  
US 2003-340542P 20011214 (60)  
US 2003-342166P 20011218 (60)  
US 2003-347580P 20020111 (60)  
US 2003-348687P 20020114 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: INCYTE CORPORATION, EXPERIMENTAL STATION, ROUTE 141 &  
HENRY CLAY ROAD, BLDG. E336, WILMINGTON, DE, 19880, US

NUMBER OF CLAIMS: 34

EXEMPLARY CLAIM: 1

LINE COUNT: 13800

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Various embodiments of the invention provide human receptors and  
membrane-associated proteins (REMAP) and polynucleotides which identify  
and encode REMAP. Embodiments of the invention also provide expression  
vectors, host cells, anti-bodies, agonists, and antagonists. Other  
embodiments provide methods for diagnosing, treating, or preventing  
disorders associated with aberrant expression of REMAP.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 8 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2005:111528 USPATFULL

TITLE: Breast cancer signatures

INVENTOR(S): Erlander, Mark, Encinitas, CA, UNITED STATES  
Ma, Xiao-Jun, San Diego, CA, UNITED STATES  
Wang, Wei, San Marcos, CA, UNITED STATES  
Witliff, James L., Louisville, KY, UNITED STATES

PATENT ASSIGNEE(S): Arcturus Bioscience, Inc. University of Louisville  
(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2005095607 AI 20050505  
APPLICATION INFO.: US 2004-795092 AI 20040305 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2003-453006P 20030307 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO  
CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834, US

NUMBER OF CLAIMS: 23

EXEMPLARY CLAIM: 1-7

NUMBER OF DRAWINGS: 3 Drawing Page(s)

LINE COUNT: 3176

CAS INDEXING IS AVAILABLE FOR THIS PATENT.



AB The invention relates to the identification and use of gene expression profiles, or patterns, suitable for identification of breast cancer patient populations with different survival outcomes. The gene expression profiles may be embodied in nucleic acid expression, protein expression, or other expression formats, and may be used in the study and/or determination of the prognosis of a patient, including breast cancer survival.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:571236 CAPLUS

DOCUMENT NUMBER: 139:112797

TITLE: Gene expression profiles for diagnostic and prognostic grading of breast cancer

INVENTOR(S): Erlander, Mark G.; Ma, Xiao-Jun; Sgroi, Dennis C.

PATENT ASSIGNEE(S): Arcturus Engineering, Inc., USA; The General Hospital Corporation

SOURCE: PCT Int. Appl., 264 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003060470	A2	20030724	WO 2002-US41347	20021220
WO 2003060470	A3	20031113		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004002067	A1	20040101	US 2001-28018	20011221
US 2003198972	A1	20031023	US 2002-211015	20020801
AU 2002360769	A1	20030730	AU 2002-360769	20021220
PRIORITY APPLN. INFO.: US 2001-28018 A 20011221				
US 2002-211015 A 20020801				
WO 2002-US41347 W 20021220				

AB This invention relates to the identification and use of gene expression patterns (or profiles or "signatures") which are correlated with (and thus able to discriminate between) cells in various stages and/or grades of breast cancer. Broadly defined, these stages are non-malignant vs. malignant, but may also be viewed as normal vs. atypical (optionally including reactive and pre-neoplastic) vs. cancerous. Another definition of the stages is normal vs. precancerous (e.g. atypical ductal hyperplasia or atypical lobular hyperplasia) vs. cancerous (e.g., carcinoma in situ such as ductal carcinoma in situ (DCIS) and/or lobular carcinoma in situ (LCIS)) vs. invasive (e.g. carcinomas such as invasive ductal carcinoma and/or invasive lobular carcinoma). The signature profiles are identified based upon multiple sampling of ref. breast tissue samples from independent cases of breast cancer and provide a reliable set of mol. criteria for identification of cells as being in one or more particular stages and/or grades of breast cancer. The gene CRIP1 is esp. prominent and thus may be a potential biomarker for the detection of breast cancer including the pre-malignant stage of atypical ductal hyperplasia. The epithelium-specific transcription factor ELF5 is also noteworthy since it maps to chromosome 11p13-15, a region subject to frequent loss of heterozygosity and rearrangement in multiple carcinoma including breast cancer.

L6 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:836498 CAPLUS

DOCUMENT NUMBER: 139:336483

TITLE: Gene expression profiles for diagnostic and prognostic  
grading of breast cancer and for drug screening  
INVENTOR(S): Erlander, Mark G.; Ma, Xiao-Jun; Sgroi, Dennis C.  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S.  
Ser. No. 28,018.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 4  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003198972	A1	20031023	US 2002-211015	20020801
US 2004002067	A1	20040101	US 2001-28018	20011221
US 2003236632	A1	20031225	US 2002-282596	20021028
WO 2003060164	A1	20030724	WO 2002-US41216	20021220
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
WO 2003060470	A2	20030724	WO 2002-US41347	20021220
WO 2003060470	A3	20031113		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002358279	A1	20030730	AU 2002-358279	20021220
AU 2002360769	A1	20030730	AU 2002-360769	20021220
PRIORITY APPLN. INFO.: US 2001-28018 A2 20011221				
US 2002-211015 A2 20020801				
US 2002-282596 A 20021028				
WO 2002-US41216 W 20021220				
WO 2002-US41347 W 20021220				

AB This invention relates to the identification and use of gene expression patterns (or profiles or "signatures") which are correlated with (and thus able to discriminate between) cells in various stages and/or grades of breast cancer. Broadly defined, these stages are non-malignant vs. malignant, but may also be viewed as normal vs. atypical (optionally including reactive and pre-neoplastic) vs. cancerous. Another definition of the stages is normal vs. precancerous (e.g. atypical ductal hyperplasia or atypical lobular hyperplasia) vs. cancerous (e.g., carcinoma in situ such as ductal carcinoma in situ (DCIS) and/or lobular carcinoma in situ (LCIS)) vs. invasive (e.g. carcinomas such as invasive ductal carcinoma and/or invasive lobular carcinoma). The signature profiles are identified based upon multiple sampling of ref. breast tissue samples from independent cases of breast cancer and provide a reliable set of mol. criteria for identification of cells as being in one or more particular stages and/or grades of breast cancer. The gene CRIP1 is esp. prominent and thus may be a potential biomarker for the detection of breast cancer including the pre-malignant stage of atypical ductal hyperplasia. The epithelium-specific transcription factor ELF5 is also noteworthy since it maps to chromosome 11p13-15, a region subject to frequent loss of heterozygosity and rearrangement in multiple carcinoma including breast cancer.

ACCESSION NUMBER: 2003:282627 USPATFULL  
TITLE: Genostics  
INVENTOR(S): Roberts, Gareth Wyn, Cambs, UNITED KINGDOM  
PATENT ASSIGNEE(S): GENOSTIC PHARMA LIMITED (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2003198970 A1 20031023  
APPLICATION INFO.: US 2002-206568 A1 20020729 (10)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 1999-325123, filed on 3 Jun  
1999, ABANDONED

NUMBER DATE

PRIORITY INFORMATION: GB 1998-12098 19980606  
GB 1998-28289 19981223  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,  
1300 I STREET, NW, WASHINGTON, DC, 20005  
NUMBER OF CLAIMS: 34  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Page(s)  
LINE COUNT: 4299  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB People vary enormously in their response to disease and the also in their response to therapeutic interventions aimed at ameliorating the disease process and progression. However, the provision of medical care and medical management is centered around observations and protocols developed in clinical trials on groups or cohorts of patients. This group data is used to derive a standardised method of treatment which is subsequently applied on an individual basis. There is considerable evidence that a significant factor underlying the individual variability in response to disease, therapy and prognosis lies in a person's genetic make-up. There have been numerous examples relating that polymorphisms within a given gene can alter the functionality of the protein encoded by that gene thus leading to a variable physiological response. In order to bring about the integration of genomics into medical practice and enable design and building of a technology platform which will enable the everyday practice of molecular medicine a way must be invented for the DNA sequence data to be aligned with the identification of genes central to the induction, development, progression and outcome of disease or physiological states of interest. According to the invention, the number of genes and their configurations (mutations and polymorphisms) needed to be identified in order to provide critical clinical information concerning individual prognosis is considerably less than the 100,000 thought to comprise the human genome. The identification of the identity of the core group of genes enables the invention of a design for genetic profiling technologies which comprises of the identification of the core group of genes and their sequence variants required to provide a broad base of clinical prognostic information--'genostics'. The "Genostic™" profiling of patients and persons will radically enhance the ability of clinicians, healthcare professionals and other parties to plan and manage healthcare provision and the targeting of appropriate healthcare resources to those deemed most in need. The use of our invention could also lead to a host of new applications for such profiling technologies, such as identification of persons with particular work or environment related risk, selection of applicants for employment, training or specific opportunities or for the enhancing the planning and organisation of health services, education services and social services.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 12 OF 15 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN  
DUPLICATE

ACCESSION NUMBER: 2002:35335452 BIOTECHNO  
TITLE: UDP-N-acetylglucosamine: .alpha.-6-D-mannoside  
.beta.1,6 N-acetylglucosaminyltransferase V (Mgat5)  
deficient mice

AUTHOR: Dennis J.W.; Pawling J.; Cheung P.; Partridge E.;  
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SOURCE: Biochimica et Biophysica Acta - General Subjects, (19  
DEC 2002), 1573/3 (414-422), 82 reference(s)  
CODEN: BBGSB3 ISSN: 0304-4165

PUBLISHER ITEM IDENT.: S0304416502004117

DOCUMENT TYPE: Journal; General Review

COUNTRY: Netherlands

LANGUAGE: English

SUMMARY LANGUAGE: English

AN 2002:35335452 BIOTECHNO

AB Targeted \*\*\*gene\*\*\* mutations in mice that cause deficiencies in  
protein glycosylation have revealed functions for specific glycans  
structures in embryogenesis, immune cell regulation, fertility and  
\*\*\*cancer\*\*\* progression. UDP- \*\*\*N\*\*\* - \*\*\*acetylglucosamine\*\*\*  
:.alpha.-6-D-mannoside .beta.1,6 \*\*\*N\*\*\* -  
\*\*\*acetylglucosaminyltransferase\*\*\* \*\*\*V\*\*\* (GlcNAc-TV or Mgat5)  
produces N-glycan intermediates that are elongated with poly  
N-acetylglucosamine to create ligands for the galectin family of  
mammalian lectins. We generated Mgat5-deficient mice by \*\*\*gene\*\*\*  
targeting methods in embryonic stem cells, and observed a complex  
phenotype in adult mice including susceptibility to autoimmune disease,  
reduced \*\*\*cancer\*\*\* progression and a behavioral defect. We found  
that Mgat5-modified N-glycans on the T cell receptor (TCR) complex bind  
to galectin-3, sequestering TCR within a multivalent galectin-  
glycoprotein lattice that impedes antigen-dependent receptor clustering  
and signal transduction. Integrin receptor clustering and cell motility  
are also sensitive to changes in Mgat5-dependent N-glycosylation. These  
studies demonstrate that low affinity but high avidity interactions  
between N-glycans and galectins can regulate the distribution of cell  
surface receptors and their responsiveness to agonists. .COPYRGT. 2002  
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L6 ANSWER 13 OF 15 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN

ACCESSION NUMBER: 2000:30797132 BIOTECHNO

TITLE: Down-regulation of N-acetylglucosaminyltransferase V  
by tumorigenesis- or metastasis-suppressor gene and  
its relation to metastatic potential of human  
hepatocarcinoma cells

AUTHOR: Guo H.-B.; Liu F.; Zhao J.-H.; Chen H.-L.  
CORPORATE SOURCE: H.-L. Chen, Key Lab. of Glycoconjugate Research,  
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SOURCE: Journal of Cellular Biochemistry, (07 SEP 2000), 79/3  
(370-385), 47 reference(s)  
CODEN: JCEBD5 ISSN: 0730-2312

DOCUMENT TYPE: Journal; Article

COUNTRY: United States

LANGUAGE: English

SUMMARY LANGUAGE: English

AN 2000:30797132 BIOTECHNO

AB The effects of transfection of the metastasis suppressor \*\*\*gene\*\*\*  
nm23-H1 and cell-cycle related tumor-suppressor \*\*\*gene\*\*\* p16 on the  
activity of \*\*\*N\*\*\* - \*\*\*acetylglucosaminyltransferase\*\*\* \*\*\*V\*\*\*  
( \*\*\*GnT\*\*\* - \*\*\*V\*\*\* ) and their relations to \*\*\*cancer\*\*\*  
metastatic potential were investigated. After transfection of nm23-H1  
into 7721 human hepatocarcinoma cells and A549 human lung \*\*\*cancer\*\*\*  
cells, the activities of \*\*\*GnT\*\*\* - \*\*\*V\*\*\* were decreased by  
28%-42% in the cells. In contrast, when p16 was transfected into these  
two cell lines, the decrease of \*\*\*GnT\*\*\* - \*\*\*V\*\*\* activity was  
only observed in A549 cells. This was probably to be due to the obvious  
expression of p16 \*\*\*gene\*\*\* in parental 7721 cells and the deletion  
of p16 in A549 cells. The decrease of \*\*\*GnT\*\*\* - \*\*\*V\*\*\* mRNA was  
only observed in nm23-H1-transfected cells, but not in p16-transfected  
A549 cells, suggesting that these two genes regulated \*\*\*GnT\*\*\* -

\*\*\*V\*\*\* via different mechanisms. Horseradish peroxidase (HRP)-lectin staining showed that the 7721 cells transfected with nm23-H1 or the A549 cells transfected with p16 displayed a decreased intensity with HRP-leucoagglutinating phytohemagglutinin and increased intensity with HRP-concanavalin A, indicating the decline of .beta.1,6 \*\*\*N\*\*\* - \*\*\*acetylglucosamine\*\*\* branching structure on the asparagine-linked glycans of cell-surface and intracellular glycoproteins. The nm23-H1 transfected 7721 cells also displayed some changes in metastasis-related phenotypes, including the increase in cell adhesion to fibronectin (Fn), the decline in cell adhesion to laminin (Ln), and the decreased cell migration and invasion through matrigel. Transfection of antisense \*\*\*GnT\*\*\* - \*\*\*V\*\*\* cDNA into 7721 cells resulted in a decrease of \*\*\*GnT\*\*\* - \*\*\*V\*\*\* activity, an increase of cell adhesion to Fn or Ln, and a decrease in cell migration and invasion through matrigel. These phenotypes bore similarity to those of the 7721 cells transfected with nm23-H1. Our findings indicate that the down-regulation of \*\*\*GnT\*\*\* - \*\*\*V\*\*\* by nm23-H1 contributes to the alterations in metastasis-related phenotypes, and is an important molecular mechanism of metastasis suppression mediated by nm23-H1. (C) 2000 Wiley-Liss, Inc.

L6 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 1999:755391 CAPLUS

DOCUMENT NUMBER: 132:217790

TITLE: Cloning and characterization of the human  
UDP-N-acetylglucosamine: .alpha.-1,3-D-mannoside  
.beta.-1,4-N-acetylglucosaminyltransferase  
IV-homologue (hGnT-IV-H) gene

AUTHOR(S): Furukawa, Toru; Youssef, Emile M.; Yatsuoka,  
Toshimasa; Yokoyama, Tadaaki; Makino, Naohiko; Inoue,  
Hiroko; Fukushige, Shinichi; Hoshi, Masato; Hayashi,  
Yutaka; Sunamura, Makoto; Horii, Akira

CORPORATE SOURCE: Department of Molecular Pathology, Tohoku University  
School of Medicine, Sendai, 980-8575, Japan

SOURCE: Journal of Human Genetics (1999), 44(6), 397-401  
CODEN: JHGEFR; ISSN: 1434-5161

PUBLISHER: Springer-Verlag Tokyo

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A novel human \*\*\*gene\*\*\* detg. a polypeptide product of 478 residues with an estd. mol. mass of 55kDa, which has significant homol. and structural similarity to Bos UDP- \*\*\*N\*\*\* - \*\*\*acetylglucosamine\*\*\* : .alpha.-1,3-D-mannoside .beta.-1,4-N- \*\*\*acetylglucosaminyltransferase\*\*\* (GnT-IV), was cloned from the commonly deleted region in pancreatic \*\*\*cancer\*\*\* at 12q21. The gene is composed of at least six exons, and the last three exons cover the open reading frame. Different sized transcripts, 3.8-kb in the heart, brain, and fetal brain and 2.8-kb and 1.7-kb in the testis were obsd. by Northern blot anal. By reverse transcription-polymerase chain reaction, expression was also obsd. in the adult brain, liver, and adrenal gland, but not in pancreas. Because of its significant homol. and structural similarity to Bos GnT-IV, it is potentially the gene encoding human GnT-IV or its homolog, which had been one of two genes remaining to be cloned in the human GnT family.

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:368562 CAPLUS

DOCUMENT NUMBER: 131:166044

TITLE: A novel second isoenzyme of the human  
UDP-N-acetylglucosamine:.alpha.1,3-D-mannoside  
.beta.1,4-N-acetylglucosaminyltransferase family: cDNA  
cloning, expression, and chromosomal assignment

AUTHOR(S): Yoshida, Aruto; Minowa, Mari T.; Takamatsu, Shinji;  
Hara, Tomoka; Ikenaga, Hiroshi; Takeuchi, Makoto

CORPORATE SOURCE: Central Laboratories for Key Technology, Kirin Brewery  
Co., Ltd., Yokohama, 236-0004, Japan

SOURCE: Glycoconjugate Journal (1998), 15(12), 1115-1123  
CODEN: GLJOEW; ISSN: 0282-0080

PUBLISHER: Kluwer Academic Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We isolated a novel cDNA encoding a second isoenzyme of UDP-N-acetylglucosamine:alpha.1,3-D-mannoside .beta.1,4-N-acetylglucosaminyltransferase (GnT-IV; EC 2.4.1.145). The nucleotide and deduced amino acid sequences of the cDNA were homologous to those of the previously cloned human GnT-IV cDNA (63% and 62% identity, resp.). The new cDNA is also confirmed to express GnT-IV activity, suggesting that two isoenzymes of human GnT-IV exist. Although genomic Southern anal. suggested that both genes exist in many mammalian species and the chicken, northern anal. revealed that both genes are expressed in different ways in human tissues. This is the first report concerning the gene family of an N-acetylglucosaminyltransferase in mammals.

REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

L1 QUE ((N-ACETYLGLUCOSAMINYLTRANSFERASE(W) V) OR (ACETYLGLUCOSAMI

FILE 'CAPLUS, SCISEARCH, BIOSIS, MEDLINE, EMBASE, USPATFULL, BIOTECHNO, ESBIODBASE, TOXCENTER, LIFESCI' ENTERED AT 14:06:58 ON 01 MAY 2006

L2 8343 S L1

L3 1386 S (N-ACETYLGLUCOSAMINE OR ACETYLGLUCOSAMINE)(S)L2

L4 256 S (GENE OR SEQUENCE OR POLYNUCLEOTIDE) (S)L3

L5 22 S (CANCER OR NEOPLAS? OR NEOVASCULARIZ? OR PROLIF?)(S)L4

L6 15 DUP REM L5 (7 DUPLICATES REMOVED)

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